



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/689,580

10/20/2003

Gaetan Heno

047717/274797

2123

826

7590

05/23/2006

ALSTON & BIRD LLP

BANK OF AMERICA PLAZA

101 SOUTH TRYON STREET, SUITE 4000

CHARLOTTE, NC 28280-4000

EXAMINER

TRAN, HOAN H

ART UNIT

PAPER NUMBER

2852

DATE MAILED: 05/23/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 10/689,580	<b>Applicant(s)</b> HENO, GAETAN	
	<b>Examiner</b> Hoan H. Tran	<b>Art Unit</b> 2852	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 27 October 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-82,84-88 and 90-106 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) See Continuation Sheet is/are allowed.
- 6) ☐ Claim(s) \_\_\_\_\_ is/are rejected.
- 7) ☒ Claim(s) 16,26,27,29,31,34,43,50,54,61,62,81,93,97 and 102 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 20 October 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>7/28/2005</u> . | 6) <input type="checkbox"/> Other: _____  |

Continuation of Disposition of Claims: Claims allowed are 1-15,17-25,28,30,32,33,35-42,44-49,51-53,55-60,63-80,82,84-88,90-92,94-96,98-101 and 103-106.

**DETAILED ACTION**

***Response to Amendment***

1. The proposed reply filed on 10/27/2005 has been entered.

***Claim Objections***

2. Claims 16, 26, 27, 29, 31, 34, 43, 50, 54, 61, 62, 81, 93, 97 and 102 are objected to because of the following informalities:

- Claim 16, line 10, change "areas" to --area--.
- Claim 26, line 9, change "areas" to --area--.
- Claim 27, line 9, change "areas" to --area--.
- Claim 29, line 2, change "said second surface area" to --said second contact surface area--.
- Claim 31, line 11, change "areas" to --area--.
- Claim 34, there is insufficient antecedent basis for the limitation "said mounting structure" in line 5.
- Claim 43, there is insufficient antecedent basis for the limitations "said second cleaning component" in lines 1-3.
- Claim 50, line 12, change "areas" to --area--; lines 13-14, change "said first surface area" to --said first contact surface area--;
- Claim 50, lines 13-14, change "said first surface area" to --said first contact surface area--.

Art Unit: 2852

- Claim 50, line 14, change "said second surface area" to --said second contact surface area--;
- Claim 54, line 1, change "said second surface" to --said second contact surface --.
- Claim 61, line 2, change "said second surface area" to --said second contact surface area--.
- Claim 62, line 14, change "areas" to --area--.
- Claim 81, line 9, change "areas" to --area--.
- Claim 81, lines 10 and 12, change "said first surface area" to --said first contact surface area--.
- Claim 81, line 11, change "said second surface area" to --said second contact surface area--.
- Claim 93, line 8, change "areas" to --area--.
- Claim 93, lines 9-10, change "said first surface area" to --said first contact surface area--.
- Claim 93, lines 9-10, change "said second surface area" to --said second contact surface area--.
- Claim 97, line 15, change "areas" to --area--.
- Claim 97, lines 16 and 18, change "said first surface area" to --said first contact surface area--.
- Claim 97, line 17, change "said second surface area" to --said second contact surface area--.
- Claim 102, line 1, change "said cleaner" to --said media cleaner--.

Art Unit: 2852

***Allowable Subject Matter***

3. Claims 1-15, 17-25, 28, 30, 32, 33, 35-42, 44-49, 51-53, 55-60, 63-80, 82, 84-88, 90-92, 94-96, 98-101 and 103-106 are allowed.
4. Claims 16, 26, 27, 31, 34, 50, 62, 81, 93 and 97 would be allowable if rewritten or amended to overcome the objection(s) set forth in this Office action.
5. Claims 29, 43, 54, 61 and 102 would be allowable if rewritten to overcome the objection(s) set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

***Prior Art***

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:
  - Lodwig et al. [2005/0084315] disclose a substrate cleaning apparatus and method.

***Contact Information***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hoan H. Tran whose telephone number is (571) 272-2141. The examiner can normally be reached from 8:30 AM - 5:00 PM Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. David Gray can be reached at (571) 272-2119. The central office fax number for the organization where this application or proceeding is assigned is (703) 872-9306.

Art Unit: 2852

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

A handwritten signature in black ink, appearing to read "Hoan Tran". The signature is fluid and cursive, with the first name "Hoan" and last name "Tran" clearly distinguishable.

HHT  
May 22, 2006

**HOAN TRAN**  
**PRIMARY EXAMINER**